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Method and Apparatus for Transmission of Data and Voice

Abstract of the Disclosure

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A modem-controller for auto switching and controlling the transmission and receiving of voice and error-free transmission of standard data signals, fax data signals and voice communications over telephone line service, radio frequency networks, satellite systems, as well as cellular telephone systems includes analog switches that receive control signals from the micro-controller for controlling and switching the audio or data path of an internal voice board and the analog signals from a modem to and from a radio frequency transceiver via a radio frequency transceiver interface/logic board, a cellular telephone transceiver via a cellular telephone transceiver interface, a telephone landline via a data access arrangement (DAA), a satellite system via a telephone landline through the DAA. A method selects the DAA which either connects to the telephone line, the satellite system or the cellular telephone, and another method bypasses the DAA, selects and controls radio frequency telemetry modules or packet radios. The operation of the modem-controller is divided into three modes comprising a command mode, a data mode and an escape mode. The software is a set of data communication protocols which provide error-free communication of data and define a file transfer protocol at the application layer, the session protocol and the link protocol.

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